

Transportation Performance Management (TPM) Performance Measures Overview

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<u>Overview</u>

- FHWA third and Final Rule published on February 17, 2017
- Established under MAP-21 and continued under FAST Act
- 3 Performance Measures are considered CMAQ related
- The performance management requirements are applied to the National Highway System (NHS)

Three CMAQ Performance Measures:

- Traffic Congestion
 - 1. Peak Hour Excessive Delay (PHED) Measure
 - 2. Percent of Non-SOV Travel Measure
- On-Road Mobile Source Emissions
 - 3. Total Emissions Reduction Measure

Applicability: Traffic Congestion and Emissions Reduction

Urbanized areas with NHS mileage and designated as nonattainment or maintenance (in whole or part) for one or more criteria pollutants or precursors (NAAQS), as follows:

- Ozone $(O_3 VOC \text{ and } NOx)$
- Carbon Monoxide (CO)
- Particulate Matter (PM₁₀ and PM_{2.5})
- 1st Performance Period (Oct 2017-Oct 2021): Based on 2008
 Ozone Standard and 2006 PM 2.5 Standard Designations
- 2nd Performance Period (Oct 2021-Oct 2025): Anticipate 2015 Ozone Standard and 2006 PM 2.5 Standard Designations

Traffic Congestion

Reduce **Peak Hour Excessive Delay (PHED)** on the NHS; delay in travel time caused by traffic congestion

- 1st Performance Period: Congestion measures only apply to non-attainment/maintenance areas that include NHS mileage and populations over 1 million
- Performance Period: Congestion measures only apply to non-attainment/maintenance areas that include NHS mileage and populations over <u>200k</u>

Traffic Congestion

Increase the percentage of **Non-Single Occupancy Vehicle** (SOV) travel on NHS (i.e. carpool/vanpool, transit, commuter rail, walking, biking, and telecommuting)

- 1st Performance Period: Congestion measures only apply to non-attainment/maintenance areas that include NHS mileage and populations over <u>1 million</u>
- 2nd Performance Period: Congestion measures only apply to non-attainment/maintenance areas that include NHS mileage and populations over 200k

On-Road Mobile Source Emissions

Reduce On-Road Mobile Source Emissions in areas designated as non-attainment or maintenance for Ozone (NOx and VOC), Carbon Monoxide (CO), or Particulate Matter (PM 2.5 and PM 10)

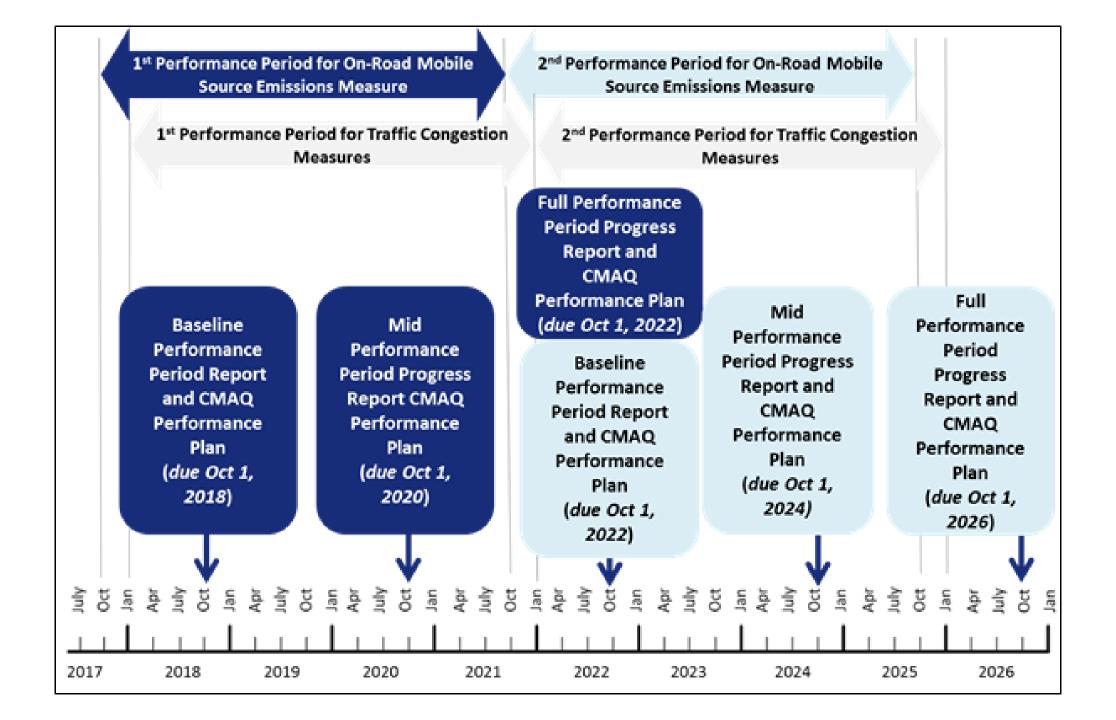
- Establish targets for <u>each</u> applicable criteria pollutant
- 1st Performance Period: Requires MPOs serving a TMA with a population over 1 million that includes a nonattainment or maintenance area to develop a CMAQ Performance Plan (SEMCOG for PM 2.5)
- 2nd Performance Period: Requires MPOs serving a TMA with a population over 1 million that includes a nonattainment or maintenance area to develop a CMAQ Performance Plan

First Performance Period Mid-Performance Results

CMAQ Performance Measures					
Measure	Target	Outcome	Baseline	Met Target?	Better Than Baseline?
Emissions - PM 2.5	417.41 KG/Day	1047.785 KG/Day	653.357 KG/Day	Yes	Yes
Non-SOV	14.40%	16%	16%	Yes	No
PHED	22hrs (4-Year)	12.7hrs	18.5hrs	Yes	Yes

2020:

- 10/1 State DOT Mid Performance Period Progress Report Due
- 10/1 MPO CMAQ Performance Plan Due (SEMCOG only)



Integration of Performance Measures into Trunkline Call

CMAQ funded projects are selected through the **Transportation Systems Management and Operations (TSMO)** programs annual Call for Project (5/6-year rolling)

- Operations (Freeway and Non-Freeway) scores and selects projects based on:
 - Benefit to Cost
 - Net Reliability and Operational Improvement vs. Existing Unreliability and Congestion
 - Safety Benefit
- ITS Operations houses CMAQ Set-Aside jobs (Transportation Operation Centers, Freeway Courtesy Patrol, MichiVan)



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MDOT CMAQ website

www.michigan.gov/cmaq